

DRILL HOLES

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BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the modification of three existing Traffic Control Signals with street lighting and interconnect and also the installation of one partial Traffic Control Signal with street lighting and interconnect in Talbot County. The four affected locations are:

US 50 and Idlewild Avenue
US 50 and MD 331 (Dover Road)
US 50 and MD 328 (Matthewstown Road)
US 50 and Dutchmans Lane

The partial Traffic Control Signal shall be installed at US 50 and Idlewild Ave. These modifications are due to resurfacing and minor geometric improvements along US 50. US 50 is assumed to run in an east-west direction at all four locations. This project also includes pavement marking and signing modifications as a result of the addition of a third lane along US 50.

II. INTERSECTION OPERATION

US 50 and Idlewild Avenue

- The intersection is to operate in a NEMA three-phase, fully-actuated mode, with the US 50 eastbound approach running in its own phase. US 50 westbound thru traffic shall not be effected by the signal. An Exclusive left turn phase shall be provided for the westbound approach of US 50. The Idlewood Avenue approach shall run in its own phase.
- A full-traffic-actuated, eight-phase controller with one (1) four channel, rack mount loop detector amp, video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

US 50 and MD 331 (Dover Road)

- The intersection phasing shall remain unchanged.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

US 50 and MD 328 (Matthewstown Road)

- The intersection phasing shall remain unchanged.
- Video interface shall be installed into the existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet at this intersection.

US 50 and Dutchmans Lane

- The intersection phasing shall remain unchanged.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The Contractor shall be responsible for installing the splice kits from the existing 2 conductor (aluminum shielded) cable to the proposed loop wire at the existing handhole. There will be no charge for this part of the project by the Contractor.
- The Contractor shall install the loop detectors before the final surface is installed.
- Any conduit sleeve that is 6' or less in length shall use the 1" liquid tight non-metallic conduit sleeve. Any conduit greater than 6' shall use the 1" galvanized conduit sleeve.
- All unused cables shall be removed from the existing conduits and it shall be the responsibility of the Contractor to dispose of these unused cables.

The contact persons for District #2 are as follows:

Mr. Robert Kiel
Assistant District Engineer - Traffic
Phone: (410) 810-3240

Mr. Terry Wright
Assistant District Engineer - Maintenance
Phone: (410) 810-3250

Mr. Barry Clothier
Assistant District Engineer - Utility
Phone: (410) 810-3274

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

The power company representative is:
Bill Vorwald
Easton Electrical Co-Op
Phone: 410-822-6110

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

CAT CODE	DESCRIPTION	QUANTITY
971017	EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET- BASE MOUNT	1 EA
973023	SHEET ALUMINUM SIGNS	86.5 SF
	W3-3 NEW "SIGNAL AHEAD" sign, (36" x 36") ground mounted with hardware.	2 EA
	D3-2 "Idlewild Ave" sign, (variable x 16") mast arm (dual faced).	1 EA
	D-3(2) "Idlewild Ave" sign, (72" x 12") ground mounted with hardware.	2 EA
	OM-1(1) "Object Marker" sign (18" x 18") ground mounted with hardware.	2 EA
	R4-7 "KEEP RIGHT (symbolic)" sign, (24" x 30") ground mounted with hardware.	1 EA
	R3-3(2) "NO LEFT OR U TURN (symbolic)" sign, (30" x 30") ground mounted with hardware.	1 EA
	R3-6 "LEFT TURN AND THRU" sign, (30" x 36") mast arm mounted.	2 EA
	R5-1 "DO NOT ENTER" sign, (30" x 30") ground mounted with hardware.	3 EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CAT CODE	DESCRIPTION	QUANTITY
203030	TEST PIT EXCAVATION	13 CY
585600	5 INCH WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS	140 LF
585624	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	365 LF
585630	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS (THRU/LEFT)	3 EA
585630	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS (LEFT)	1 EA
80000A	CUT AND REROUTE INTERCONNECT CABLE INTO PROPOSED CONTROLLER	20 LF
80000A	REMOVE EXISTING OVERHEAD SIGN.	8 EA
801003	CONCRETE FOR LIGHT FOUNDATION	19 CY
801004	CONCRETE FOR SIGNAL FOUNDATION	12 CY
801104	WOOD SIGN SUPPORTS 4 INCH X 4 INCH	176 LF
801106	WOOD SIGN SUPPORTS 4 INCH X 6 INCH	32 LF
801711	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	151 SF
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	1485 LF
805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	525 LF
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	1020 LF
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	1191 LF
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	260 LF
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	20 LF
805160	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	55 LF

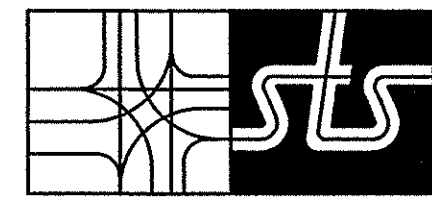
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CAT CODE	DESCRIPTION	QUANTITY
807202	METERED SERVICE PEDESTAL	5 EA
808031	40 FOOT LIGHT STRUCTURE - 15 FOOT BRACKET ARM	9 EA
810601	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	11 EA
810605	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	5 EA
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	26 EA
811004	REMOVE ELECTRICAL MANHOLE	2 EA
813014	INSTALL GROUND MOUNTED SIGN	62 SF
813015	INSTALL OVERHEAD SIGN	24.5 SF
813022	REMOVE EXISTING GROUND MOUNTED SIGNS	75 SF
813023	RELOCATE EXISTING GROUND MOUNTED SIGNS	14 SF
816001	VIDEO DETECTION CAMERA	6 EA
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	6 EA
816015	VIDEO INTERFACE EQUIPMENT	1 EA
816215	OPTICOM NO. 721 DETECTOR EYE	1 EA
818010	14 FOOT BREAKAWAY PEDESTAL POLE	1 EA
818052	STEEL POLE WITH SINGLE 70 FOOT MAST ARM	1 EA
821002	BREAKAWAY BASE SUPPORT SYSTEM FOR LIGHTING STRUCTURE	9 EA
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	10 EA
834001	CONNECTOR KIT - TYPE I	9 EA
834002	CONNECTOR KIT - TYPE II	9 EA
837001	GROUND ROD -3/4 INCH DIAMETER X 10 FOOT LENGTH	26 EA
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	21 EA
860288	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE	220 LF
861104	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	895 LF
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	205 LF
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	755 LF
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	1920 LF
862101	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	1670 LF
862102	SAW CUT FOR SIGNAL (LOOP DETECTOR)	525 LF
866103	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	1 EA

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR

ANY EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPOERTY OF THE CONTRACTOR

S&A STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
US 50 AND IDLEWILD AVE
US 50 AND MD 331 (DOVER RD)
US 50 AND MD 328 (MATTHEWSTOWN RD)
EASTON, MARYLAND



STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy, NW
Glen Burnie, MD 21061
Ph (410) 580-5500
Fax (410) 580-6537

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PLOTTED: \$DATE\$
FILE: \$FILE\$

SCALE	NONE	DATE	4/11/2006	CONTRACT NO.	TA4265187
DESIGNED BY	JAMES ALLEN JR	COUNTY	TALBOT		
DRAWN BY	R. C.	LOGMILE	20005012.09		
CHECKED BY		TIMS NO.	6570		
F.A.P. NO.		TOD NO.			
TS NO.		DRAWING NO.	OF	SHEET NO.	44 OF 55